

WHAT IS CLAIMED IS:

Sub A 1
1 1. For use in a processing system having a display screen, an
2 apparatus for highlighting a selected portion of said display screen
3 comprising:

4 a color shift controller capable of receiving a user input
5 selecting one of a plurality of portions of said display screen and,
6 in response to said user input selection, modifying a value of at
7 least one pixel within said selected portion to increase the color
8 temperature of said at least one pixel.

1 2. The apparatus as set forth in Claim 1 wherein said display
2 screen comprises a cathode ray tube (CRT) screen.

1 3. The apparatus as set forth in Claim 1 wherein said display
2 screen comprises one of: a liquid crystal display screen, a flat panel
3 display screen, a plasma display screen, and a projection display
4 screen.

1 4. The apparatus as set forth in Claim 1 wherein said selected
2 portion of said display screen comprises a first window controlled by
3 a first application executed by said processing system and wherein
4 said color shift controller is capable of modifying red-blue-green
5 (RGB) values of a plurality of pixels in said first window to thereby
6 increase a color temperature of said plurality of pixels.

1 5. The apparatus as set forth in Claim 1 wherein said selected
2 portion of said display screen comprises a first window controlled by
3 a first application executed by said processing system and wherein
4 said color shift controller is capable of modifying a first set of
5 white pixel values in said first window to increase the color
6 temperature of said white pixel values.

1 6. The apparatus as set forth in Claim 5 wherein said color
2 shift controller increases the color temperature of said white pixel
3 values by using a linear matrix in software to transform the original
4 red-green-blue (RGB) values to new red-green-blue (RGB) values that
5 have a higher color temperature.

1 7. The apparatus as set forth in Claim 1 wherein said color
2 shift controller increases the color temperature of said at least one
3 pixel relative to a color temperature of a background of said display
4 screen.

1 8. A processing system comprising:
2 a display screen;
3 a memory;
4 a data processor; and
5 an apparatus for highlighting a selected portion of said
6 display screen comprising a color shift controller capable
7 of receiving a user input selecting one of a plurality of portions of

8 said display screen and, in response to said user input selection,
9 modifying a value of at least one pixel within said selected portion
10 to increase the color temperature of said at least one pixel.

1 9. The processing system as set forth in Claim 8 wherein said
2 display screen comprises a cathode ray tube (CRT) screen.

1 10. The processing system as set forth in Claim 8 wherein said
2 display screen comprises one of: a liquid crystal display screen, a
3 flat panel display screen, a plasma display screen, and a projection
4 display screen.

1 11. The processing system as set forth in Claim 8 wherein said
2 selected portion of said display screen comprises a first window
3 controlled by a first application executed by said processing system
4 and wherein said color shift controller is capable of modifying red-
5 blue-green (RGB) values of a plurality of pixels in said first window
6 to thereby increase a color temperature of said plurality of pixels.

1 12. The processing system as set forth in Claim 8 wherein said
2 selected portion of said display screen comprises a first window
3 controlled by a first application executed by said processing system
4 and wherein said color shift controller is capable of modifying a
5 first set of white pixel values in said first window to increase the
6 color temperature of said white pixel values.

1 13. The processing system as set forth in Claim 12 wherein said
2 color shift controller increases the color temperature of said white
3 pixel values by using a linear matrix in software to transform the
4 original red-green-blue (RGB) values to new red-green-blue (RGB)
5 values that have a higher color temperature.

1 14. The processing system as set forth in Claim 8 wherein said
2 color shift controller increases the color temperature of said at
3 least one pixel relative to a color temperature of a background of
4 said display screen.

1 15. For use in a processing system having a display screen,
2 a method for highlighting a selected portion of said display screen
3 comprising:

4 selecting a portion of said display screen; and
5 increasing the color temperature of at least one color
6 within said selected portion of said display screen.

1 16. The method as set forth in Claim 15 wherein the step of
2 increasing the color temperature of at least one color within said
3 selected portion of said display screen comprises the sub-step of:

4 modifying red-blue-green (RGB) values of a plurality of
5 pixels within said selected portion of said display screen to thereby
6 increase a color temperature of said plurality of pixels.

1 17. The method as set forth in Claim 15 wherein the step of
2 increasing the color temperature of at least one color within said
3 selected portion of said display screen comprises the sub-step of:

4 modifying white values of a plurality of pixels within said
5 selected portion of said display screen to increase the color
6 temperature of said white pixel values.

1 18. The method as set forth in Claim 17 wherein the step of
2 modifying white values of a plurality of pixels within said selected
3 portion of said display screen to increase the color temperature of
4 said white pixel values comprises the sub-step of:

5 transforming in a linear matrix in software original red-
6 green-blue (RGB) values to new red-green-blue (RGB) values that have
7 a higher color temperature.

1 19. The method as set forth in Claim 15 wherein the step of
2 increasing the color temperature comprises the sub-step of increasing
3 the color temperature of said at least one pixel relative to a color
4 temperature of a background of said display screen.

1 20. For use in a processing system having a display screen,
2 computer-executable instructions stored on a computer-readable storage
3 medium for highlighting a selected portion of said display screen, the
4 computer-executable instructions comprising the steps of:

5 receiving a user input selecting a portion of said display

6 screen; and

7 increasing the color temperature of at least one color
8 within said selected portion of said display screen.

1 21. The computer-executable instructions stored on a computer-
2 readable storage medium as set forth in Claim 20 wherein the step of
3 increasing the color temperature of at least one color within said
4 selected portion of said display screen comprises the sub-step of:

5 modifying red-blue-green (RGB) values of a plurality of
6 pixels within said selected portion of said display screen to thereby
7 increase a color temperature of said plurality of pixels.

1 22. The computer-executable instructions stored on a computer
2 readable storage medium as set forth in Claim 20 wherein the step of
3 increasing the color temperature of at least one color within said
4 selected portion of said display screen comprises the substep of:

5 modifying white values of a plurality of pixels within said
6 selected portion of said display screen to increase the color
7 temperature of said white pixel values.

1 23. The computer-executable instructions stored on a computer
2 readable storage medium as set forth in Claim 22 wherein the step of
3 modifying white values of a plurality of pixels within said selected
4 portion of said display screen to increase the color temperature of
5 said white pixel values comprises the sub-step of:

6 transforming in a linear matrix in software original red-
7 green-blue (RGB) values to new red-green-blue (RGB) values that have
8 a higher color temperature.

1 24. The computer-executable instructions stored on a computer
2 readable storage medium as set forth in Claim 20 wherein the step of
3 increasing the color temperature comprises the sub-step of increasing
4 the color temperature of said at least one pixel relative to a color
5 temperature of a background of said display screen.